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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/685,208	10/14/2003	Xudong Fan	58392US002	4078	
32692	7590 08/23/2006		EXAMINER		
3M INNOVATIVE PROPERTIES COMPANY			ROSENBERGE	ROSENBERGER, RICHARD A	
PO BOX 3342 ST. PAUL. M	427 MN 55133-3427		ART UNIT	PAPER NUMBER	
			2877		
			DATE MAILED: 08/23/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)				
		FAN ET AL.				
Office Action Summary	10/685,208 Examiner					
,		Art Unit				
The MAILING DATE of this communication app	Richard A. Rosenberger	2877 orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 13 Ju	<u>ıly 2006</u> .					
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ⊠ Claim(s) 1-25,28-38 is/are pending in the appli 4a) Of the above claim(s) is/are withdray 5) ⊠ Claim(s) 1-17, 25, 29-38 is/are allowed. 6) ⊠ Claim(s) 18-24 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/o	wn from consideration.					
Application Papers						
 9) The specification is objected to by the Examine 10) The drawing(s) filed on 14 October 2003 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex 	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	ite				
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>07/13/2006</u>. 	5) Notice of Informal P 6) Other:	atent Application (PTO-152)				

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Art Unit: 2877

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

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2. Claims 18-24 are rejected under 35 U.S.C. 101 because the final step of claim 18 of merely determining would not appear to be sufficient to constitute a tangible result, since the outcome of the determining step is not being claimed in a disclosed practical application nor is it outcome being made available in such a manner that its usefulness in a disclosed practical application can be realized. See OG Notices: 22 November 2005, "Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility".

Claims 19-24, dependent from claim 18, are similarly rejected because none of these claims add to their parent claim 18 the required practical application or make the outcome available in such a manner that its usefulness in a disclosed practical application can be realized.

3. As set forth previously, clams 1-17, 25, and 28-38 appear to be allowable. The art does not appear to teach or suggest a system including, in the overall coaled combination, a microresonator defining whispering gallery modes and having at least a porous surface region as in claim 1, or a "body operative as a microresonator, defining whispering gallery modes", wherein both of "the body being porous" and "the body in substantially planar" as in claim 25.

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Claim 18 appears to contain subject matter allowable over the art of record, if the claim can be amended to overcome the rejection under 35 USC 101 above.

- 4. The document to Cha et al (2003/0082237) discloses a nanoparticle. In paragraph [0088], the reference states "... we have detected whispering gallery modes ...", and in paragraph [0090] the reference mentions "[p]orous films produced with out method ...". However, the reference does not appear to contain disclosure to put these tow together to teach or suggest the subject matter of claim 1.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard A Rosenberger whose telephone number is (571) 272-2428. The examiner can normally be reached on Monday through Friday during the hours of 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory J. Toatley, Jr. can be reached on (571) 272-2800 ext. 77. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

R. A. Rosenberger 18 August 2006

Richard A. Rosenberger Primary Examiner